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SEVENPENCE.

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BACK TO THE LAND IN THE LIBERATED PARTS OF FRANCE: AN OLD FRENCH PEASANT UPROOTING THE "TARES"
OF WAR FROM HIS DOMAIN.

The courage and endurance of the French peasantry in the war zone have exemplified, along with the heroism of her soldiers, the indomitable spirit of France. Even under shell-fire, the peasants have often continued to till their fields; and after the tide of war has rolled back, they have at once gone forward to restore the liberated soil to cultivation.

This picturesque photograph shows a scene such as Millet would have loved to paint had he been alive to-day—an old peasant busy digging up the "tares," in the shape of barbed-wire entanglements, which the enemy had sown in his field, so that the earth may once more bring forth its fruits in due season.

"LET US NOW PRAISE FAMOUS MEN": READING THE ROLL-CALL OF THE "CONTEMPTIBLE LITTLE ARMY."

AN IMPRESSION BY S. BEGG, OUR SPECIAL ARTIST AT THE ALBERT HALL CELEBRATION.



THE NATION'S TRIBUTE TO THE HEROES OF MONS: THE COMMEMORATION AT THE

The glory of the First Seven Divisions which Britain sent out to withstand the German hosts—that "contemptible little Army," as the Kaiser called it, which fought so heroically in the retreat from Mons, and then swung back to share in the victory of the Marne—will live immortal in the pages of history. Meaningless, it was fitting that the nation should offer its tribute to the priceless service which they rendered to their country and to the world. This tribute took the form of a great choral commemoration at the Albert Hall on Saturday, December 15, which was attended by the King and Queen, Queen Alexandra, and other members of the Royal Family. Seven hundred of the survivors of the first British Expeditionary Force, that fought at Mons in August 1914, were present in the boxes. Every regiment that took part in the fighting sent its representatives, two officers and four non-commissioned officers and men being chosen from each unit. The programme contained the story of

ALBERT HALL—LORD DERBY READING THE ROLL-CALL OF THE FIRST SEVEN DIVISIONS.

the Mons Army's deeds, told by Sir Henry Newbolt, his song of the great retreat, "The Toy Band," Julian Grenfell's poem, "Into Battle," and Rupert Brooke's sonnets, "The Soldier" and "The Dead." The music consisted of a number of works with special settings, by various well-known composers, including Sir Edward Elgar, Sir Charles Stanford, Sir Hubert Parry, Mr. Vaughan Williams, and Mr. Arthur Somervell, given by the Bach Choir, with Miss Lillian Stiles-Allen and Mr. H. Plunket-Greene as soloists. After the music, Mr. Balfour read from the Book of Ecclesiasticus the noble passage beginning "Let us now praise famous men," and ending "Their name liveth for evermore." Next, as Minister of War, Lord Derby read out the Order of Battle of the First Seven Divisions, after which followed the hymn, "For All the Saints," and the celebration closed with "Reveille" and "God Save the King."—[Drawing Copyrighted in the United States and Canada.]



By G. K. CHESTERTON.

BEFORE we begin complaining of the inconveniences which now necessarily entangle us, it would be well to remember that there are many, both friends and foes, who wish (like the cabman contemplating the drunken gentleman) that they had half our complaint. For, indeed, our very reasons for complaint are reasons for contentment. We cannot catalogue our misfortunes without revealing the comparative good fortune we enjoy. It is as if a man were to walk among the naked and complain that he had a hole in his coat. It is far more fantastic than if a man lived in a community of cripples, with crutches and wooden legs, and then murmured that he had a pebble in his shoe. It is better to have the coat with the hole than to have, so to speak, the hole without the coat. And if the second malcontent has a pebble in his shoe, it is a proof that he has a shoe; and if he has a shoe, it is at least a proof that, like Sir Willoughby Patterne, he has a leg. These cases are very crude and alphabetic; but the real cases in the contemporary world are really quite as simple and quite as self-evident. A respectable householder in Balham, let us say, has undoubtedly very much to vex him in these days; he is naturally annoyed at all the things that are done to restrain him; and, if possible, still more annoyed at the things that are done to protect him. He is an Englishman, with a real love of liberty—vague indeed in its theory, but very vivid in its instincts. He is not used to obeying a bureaucracy; and does not find it easier when the bureaucrats prove, in almost every word and act, that they are not used to being bureaucrats. They also, poor brutes, are sturdy business men from Balham; and have lived on nothing but a vague tradition of liberty. It bothers him to have to put up the shutters in his house for fear of air-raids; it bothers his wife to have to curtail the housekeeping for fear of the Food Controller; it bothers his friends to have to find their way to his front door in the dark. And there is certainly a sense in which he would not suffer any of these sorrows, if the star of his birth happened to have risen not in Balham but in Belgium. This might easily have been the case; and the case, up to a certain point of time, would not have been very widely different. There are houses in Belgium as comfortable and respectable as any in Balham; the malignant might say that there are houses in Belgium as Cockney and commonplace as any in Balham. The newer and more private buildings are not very different; the older and more public buildings—the cathedrals and palaces of justice—are even held by some to be superior to the cathedrals and palaces of Balham. In that very similar country, across a strip of sea, the householder might not be asked to put shutters on his house, because he might not have a house. It might have been burnt down or blown to pieces by people much more businesslike than our poor old business dictators. His wife would not have to cut down the housekeeping, because his wife would not be there to do it. She would have been carried off and set to work in a gang of slaves, to minister to the needs of the invader. His friends would not try to find their way to his front door, either in dark or dawn—possibly because they were most of them dead, possibly because even a friend's front door is a less attractive and interesting object when there is no house attached to it. These, as I say, are exceedingly simple truths; they are as common as stones, and rather commoner than grass, along much of the debatable land of battle in France or Flanders. But, although they are commonplaces, an influential—and,

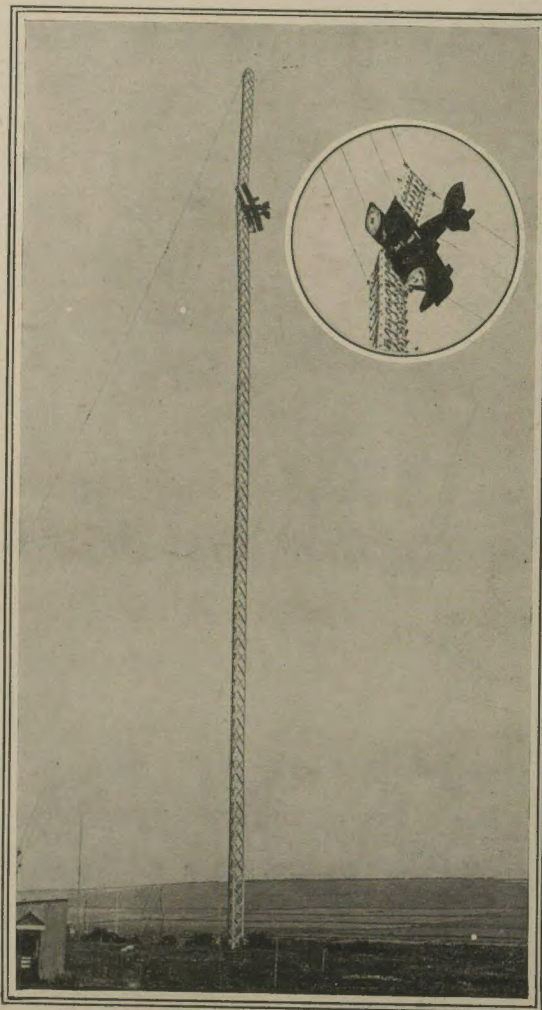
I fear, increasing—group of people seem either never to have heard of them or to have utterly forgotten them.

If anybody supposes I am sneering or sniggering at the householder, I have conveyed the exact opposite of my meaning. I have spoilt a vast amount of paper in my time, not only with explanations as bald as the present one, but with bad poems and worse stories, with the sole object of saying one thing—that Balham is as epical as Babylon, so long as a man and

existence cannot become romantic until it has become tragic. I urge the men of Balham to be proud and worthy of Balham before it has been visited with the fate of Belgium. And the practical moral of my suggestion is that they should count their good things, and not merely count their grievances. It is a very practical patriotic duty, for, unless the note of it is firmly struck in our politics and our Press, we shall lose all that we are fighting to win. Nor do I speak, of course, of that best part of Balham that may be already fighting in Belgium, those countless householders who have left their own households to save the household of a stranger. I speak of those limited like myself; and I need not say I include myself in any description of their moral danger—which is the danger of a mood.

For it is precisely because the war is still more distant for us than for our Allies that we may be tempted to let it drop, hardly knowing what we do. It is precisely because it is for us (comparatively speaking, of course) simply a nuisance that we may be relatively indifferent to how it ends, so long as it does end. So in proportion, as a man is far from the Prussian crime, he will be disposed to end it rather than to punish it. So we should all vaguely desire cannibalism to cease in the Cannibal Islands; but we should feel very differently if cannibalism had been practised in broad daylight in the towns and villages of our own island. Yet things viler than cannibalism have been practised in broad daylight in the towns and villages of Flanders, of Northern France, and lately of Northern Italy. If they had been so practised in our own towns and villages, we should never efface them from our memories, or be content merely with effacing the material manifestations of them from our fields. We should, every man of us, flatly insist on having the authors of these things at the very least defeated and disgraced—condemned to some exposure and expiation as public as their sins. They would not be a vague crowd, or cloud, of collective enemies with whom we had renewed peaceful relations; they would be particular criminals whom we had let loose on the world. It may seem to some that my fanciful imagery about Balham and Babylon was flippant or almost unfeeling. It would not seem flippant but frightful, not unfeeling but harrowing to all the feelings we have, if the enemy had put crossed a few more miles of land and water. There might have been a Battle of Balham; there might have been a Rout of Balham; there might have been a Massacre of Balham. Wimbledon might be to us an awful and tragic word, like Louvain or Liège; Pimlico might be a name of power and terror. Many will laugh at the mere association of ideas. They are lucky to be able to laugh.

Finally, it should be remembered that, though the enemy has not yet suffered anything proportionate to his crimes, or anything equivalent to the sufferings of his victims, he is already suffering far more than we are, in the special fashion in which we are. Under his Food Controller there is far more control and far less food. Under his Defence of the Realm Act there is not so much a restraint of liberty as no liberty to be restrained. It is as a master of slaves that he would win, if he did win; it is as a master of slaves that he will fall, when he does fall. We wish to strike at the rulers and responsible men; the masses are probably suffering much already. But if we made them all prisoners of war, and then turned them all into prisoners for life, they could hardly be more completely captive than they are now.



A UNIQUE ACCIDENT AND A HEROIC RESCUE: A BRITISH SEAPLANE WEDGED IN A WIRELESS MAST (INSET, A LARGER VIEW OF THE SEAPLANE). For saving the airman the King recently awarded the Albert Medal in gold to Nicholas Rath, Seaman, R.N.R., and the Albert Medal to Richard Knoulton, Ordinary Seaman, R.N., and George E. P. Abbott, Deck-hand, R.N.R. (Trawler Section). The "Gazette" stated: "On September 14 a seaplane collided with a Poulsen mast and remained wedged in it, the pilot (Acting Flight-Commander E. A. de Ville) being rendered unconscious and thrown out on to one of the wings. The three men climbed up the mast for 100 feet, when Rath, making use of the boatswain's chair, which moves inside the mast, was hoisted up by men at the foot to the place, over 300 feet from the ground, where the seaplane was fixed. He then climbed out on the plane and held the pilot until the arrival of Knoulton and Abbott, who passed the masthead gantline out to him. Having secured the pilot with the gantline, they lifted him from the plane and lowered him to the ground. One of the three supports of the mast was fractured, and, so far as the men knew, the mast or seaplane might at any time have collapsed."—[Photographs by Newspaper Illustrations.]

his wife and his house exist at all. I merely regret that some people can only realise their epic quality when they no longer exist at all. I regret the necessity of bringing up a gun to blow a house to pieces before anybody will notice that it is there. I am sorry that a wife should not be valued as a wife, without the tiresome formality of having her sold as a slave. In short, I think it an error to assume that a respectable

ITALY'S SPLENDID STAND: ON THE PIAVE AND THE BRENTA FRONTS.

ITALIAN OFFICIAL PHOTOGRAPHS.



ON THE LOWER PIAVE: FROM THE ITALIAN SIDE LOOKING OVER THE "ISLAND OF THE DEAD," WHERE AN AUSTRIAN DETACHMENT WAS ANNIHILATED.



ON THE LOWER PIAVE, NEAR THE "ISLAND OF THE DEAD": IN PART OF ONE OF THE ITALIAN FRONT-LINE TRENCHES ALONG THE RIVER BANK.



ON THE BRENTA: AN ITALIAN BARRICADE WITH, ON THE BANK, A BRUSHWOOD-CAMOUFLAGED BARBED-WIRE BARRIER AND A DAM SLANTWISE ACROSS THE RIVER.



LOOKING UP-STREAM TOWARDS THE AUSTRIAN TYROL: AN ITALIAN OBSERVATION-POST ABOVE THE BRENTA VALLEY IN THE VICINITY OF THE ASIAGO PLATEAU.



INVADERS WHO HAVE ONLY REACHED ITALY TO BE MADE PRISONERS: A GROUP OF AUSTRIAN OFFICERS IN AN ITALIAN VILLAGE AWAITING REMOVAL.

The "Island of the Dead," as the place has been named by the Italians, is a flat islet patch of sand and gravel in the Lower Piave. It has shelving banks, and just shows above the surface of the stream, as the first photograph here represents. The Piave there is wide and shallow, and the locality appeared to offer an easy place for crossing to the Austrians, on the enemy reaching that part of the country during their November onslaught; using the island as a stepping-stone, so to speak. They seized the islet, but their efforts to get a permanent footing on the other side of the river failed. A few parties did get over, but were attacked at close quarters, and were either killed or taken prisoners. Then, fresh Italian troops arriving

with artillery and machine-guns, the entire Austrian force crowded on the islet were literally annihilated. The River Brenta, which is shown in the third and fourth illustrations, flows through the sector of the Italian defence line facing north. It is a rapid-flowing Alpine river, coming down through the mountains by the Asiago plateau from the Austrian Tyrol. For part of its course, the Brenta threads the main pass leading from the Austrian Tyrol to the plains of Italy. The "Brenta Gap," as it is called, where the river debouches on to the Italian plain, to flow past Bassano and near Padua, to the Adriatic south of Venice, by Chioggia, is one of the important places on the Italian northern front; alike to the Italians and to the enemy.

FOR KING AND COUNTRY: OFFICERS ON THE ROLL OF HONOUR.

PHOTOGRAPHS BY A. P. STEER, ELLIOTT AND FRY, LAFAYETTE, BASSANO, GABILL, FOULSHAM AND BANFIELD, YEOMAN, SPORT AND GENERAL, SWAINE, RUSSELL, AND CENTRAL PRESS.



CAPTAIN N. H. W. SAW, M.C.,
R.A.M.C. Son of Mr. and Mrs.
S. Saw, Junr., Blackheath. Killed
in action.



LIEUT. C. ALFRED DE
LALOUBERE,
East Surrey Regiment. Has been offi-
cially reported killed in action.



LIEUT.-COL. T. C. IRVING, D.S.O.,
Canadian Engineers. Came over
with the first contingent. Died of
wounds.



MAJOR FRANK GOLDSMITH, M.C.,
Hampshire Regt. Youngest son of
Mr. James Goldsmith, Old B'endworth,
Hampshire.



ACTING LIEUT. RONALD C
BLACK,
R.N. Son of the Rev. C. and Mrs. Black,
Highcroft, West Hoathly, Sussex.



MAJOR S. M. BALFOUR,
Royal Flying Corps. Officially re-
ported as killed while on active
duty.



LIEUT.-COL. DAVID GRAHAM
McNICOLL, D.S.O.,
R. Fusiliers. Son of the late Mr. David
McNicoll and of Mrs. McNicoll, Sheffield.



CAPT. T. R. COLYER FERGUSSON,
V.C.,
North'n Regt. Awarded V.C. for most
conspicuous bravery and skilful leading.



CAPT. MICHAEL D. W. MAUDE,
A.P.W.O., Yorkshire Regt. Son of
Col. Maude, Rylstone. Mentioned
in despatches.



MAJOR A. D. NEWTON,
Royal Flying Corps. Has been officially
reported as being killed while on active
duty.



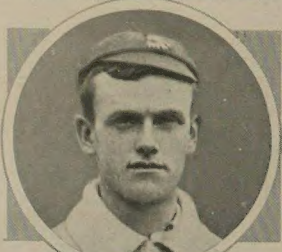
BRIG.-GEN. R. B. BRADFORD, V.C.,
Promoted at age of 25. Youngest son
of the late Mr. George Bradford, Con-
sulting Mining Engineer, Darlington.



CAPTAIN W. A. BOND,
M.C. (with Bar),
King's Own Yorkshire L.I. Reported
missing; now reported killed.



LIEUT. CECIL J. BEACHAM,
Worcester Regt. Son of late Mr. Arthur
Beacham, and of Mrs. Beacham, Ipsley
Mount, Redditch.



COLIN BLYTHE,
The famous Kent bowler. Killed
at the Front, with four comrades,
by a shell.



MAJOR E. A. DE ROTHSCHILD,
Yeomanry. Second son of late Mr.
Leopold de Rothschild, and of Mrs. de
Rothschild, Hamilton Place, W.



CAPTAIN P. H. FERGUSSON,
Royal Field Artillery. Went to France
in 1914. Officially reported as being
killed in action.



CAPTAIN J. R. ANTHONY,
Royal Flying Corps. Son of the late
Alderman Anthony, of Pwllheli, North
Wales.



2ND LIEUT. J. MACLEOD
HUTCHESON,
East Surrey Regt. Officially reported as
being killed in action.



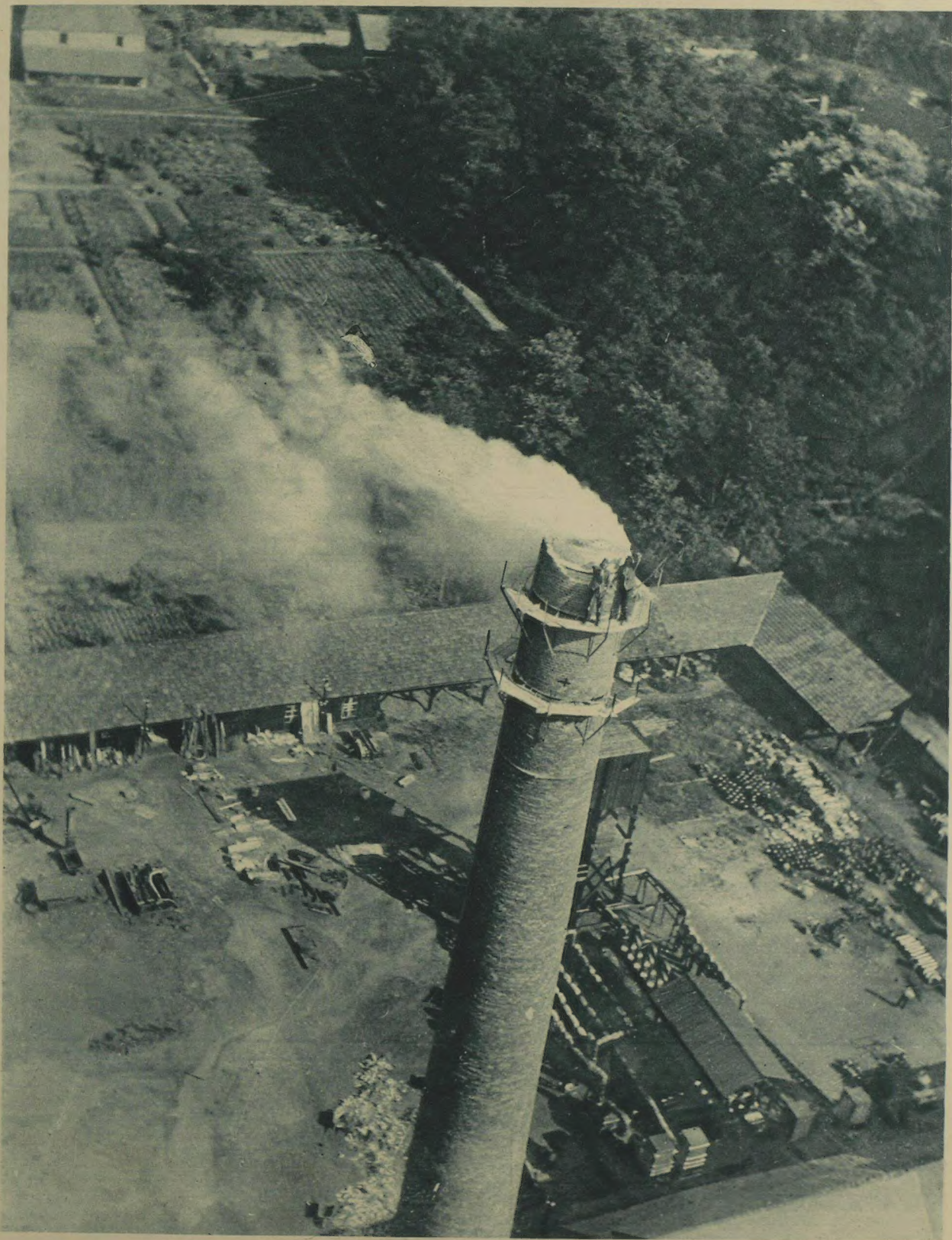
CAPTAIN R. V. AGIUS,
London Regt. Youngest son of Mr. and
Mrs. Edward T. Agius, Belsize Grove,
N.W.



CAPTAIN C. L. M. ROBERTS,
R. Warwick Regt. Son of the Rev.
A. P. and Mrs. Roberts, St. Margaret's
Lodge, Ladywood Road, Birmingham.

WHAT FLYING LOW MEANS: A PHOTOGRAPH FROM A 'PLANE.

PHOTOGRAPH SUPPLIED BY ALFIERI.



HOW ALLIED AIRMEN, FLYING LOW TO BOMB ENEMY MUNITION-WORKS, ARE ABLE TO CHOOSE THEIR TARGETS:
A FACTORY CHIMNEY UNDER REPAIR—PHOTOGRAPHED FROM AN AEROPLANE.

One reads constantly in the papers of Allied air-squadrons on the Western Front raiding German munition-factories, and that in many cases the airmen were able to drop some tons of bombs on their objectives. Often it has happened that, in spite of heavy firing by the German local anti-aircraft gunners, the bombers have been able to run the gauntlet successfully and fly sufficiently low to be able to bring back positive reports of direct hits, being able also to get a fair idea of the probable damage done in the way of incendiary

fires and destructive explosions. A very good idea of what an airman, flying quite low over a large munition-factory establishment, can see, enabling him to place his bombs with exactness and certainty of hitting his selected target, is shown by the illustration above, a photograph of a French factory, taken from a French aeroplane. At the time, workmen were repairing the chimney, and two of them are seen on the upper platform by the chimney mouth, standing with their backs to the brickwork and waving to the airmen.

FUNERAL PAGEANTRY IN CHINA: THE MOST GORGEOUS SINCE THAT OF THE EMPRESS DOWAGER.



THE FUNERAL OF THE PRESIDENT'S WIFE, MME. FENG KUO-CHANG:
FLORAL GIFTS ON THE LINE OF ROUTE.



CONTAINING PICTURES OF MME. FENG KUO-CHANG'S ANCESTORS: A PALANQUIN (ON THE LEFT),
PRECEDED BY LARGE SILK UMBRELLAS, IN THE PROCESSION.



BORNE BY NUMEROUS BEARERS IN ORNATE LIVELY: THE CATAFALQUE
CONTAINING THE BODY OF MME. FENG KUO-CHANG.



THE TRAIN USED TO CONVEY THE BODY TO TIENTSIN: THE RICHLY DECORATED CAR
IN WHICH THE COFFIN TRAVELLED.

The ceremonies attending the funeral of the late Mme. Feng Kuo-chang, wife of the President of the Chinese Republic, have been described as the most gorgeous seen in China since the burial of the great Dowager Empress. Our photographs illustrate the cortège in Peking, whence the coffin was conveyed by rail to Tientsin in a richly decorated car. It may be recalled that Feng Kuo-chang assumed the Presidency early in August last, shortly after the unsuccessful attempt to restore the Emperor.

The previous President, Li Yuan-hung, declined to resume office. There have been various changes in the Ministry during the last few months. A message from Peking of December 2 stated that a new Cabinet, of a non-party character, had just been formed, with Wang Shih-cheng as Acting Prime Minister. As mentioned in our issue of December 8, in connection with photographs of the President at a review, there has been opposition in China for some time between North and South.

S.O.S. BY PIGEON: A BIRD BEARING A CALL FOR HELP RELEASED FROM A SEAPLANE IN DISTRESS.

DRAWN BY CHARLES PEARS, R.O.I.



A WARNING TO THE "FOOL WITH A GUN" NOT TO SHOOT HOMING PIGEONS: A BIRD ON WHOSE LIFE DEPENDS THE LIVES OF TWO BRITISH AIRMEN.

British naval airmen in distress in a seaplane compelled in consequence of a breakdown, or their petrol giving out, to descend at sea in rough weather, are seen sending off a messenger-pigeon asking for assistance to be sent. Every seaplane carries messenger-pigeons, and there are corresponding messenger-pigeon lofts at coast ports and aerodromes to which the birds home; and it may be that the bird seen may reach one in time for rescue to arrive before the waves break up the frame of the seaplane. On the other hand, as the pigeon wings its way along the coast, or across country, between the point where it

makes land and its "homing" place—it may be shot by some "fool with a gun." In such a case the airmen in distress are doomed, except for the chance appearance of some cruising patrol-vessel. "A considerable number of cases," says a memorandum sent by Sir John French to the magistrates, "have been reported of the shooting of carrier and homing pigeons by members of the public. . . . Two pigeons were shot when carrying messages from seaplanes in distress, delaying for days the receipt of the messages."—[Drawing Copyrighted in the United States and Canada.]

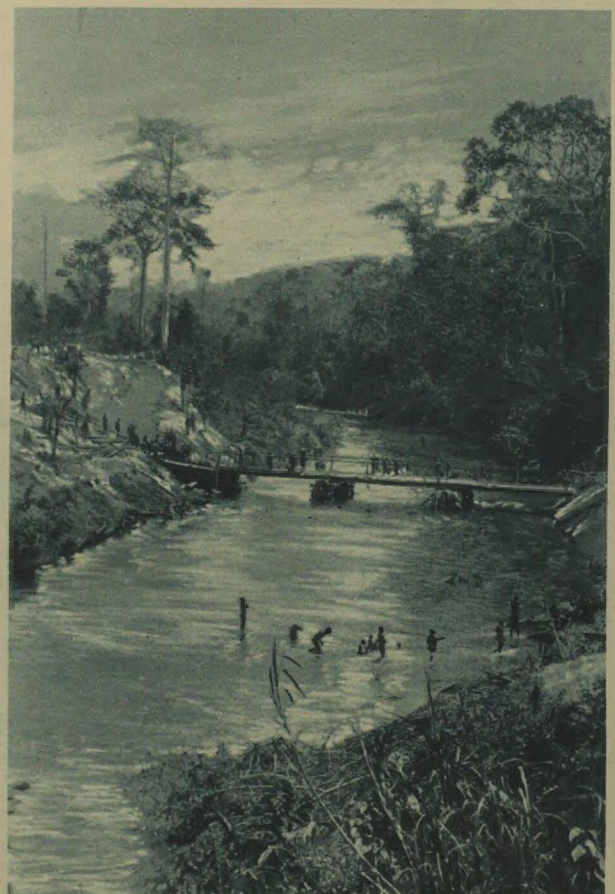
THE CONQUEST OF GERMAN EAST AFRICA: THE LAST CAMPAIGN.



K.A.R. ON PIONEER WORK AT A RIVER WHERE THE ENEMY HAD BLOWN UP THE BRIDGE: CLEARING A SLOPING ROADWAY TO ENABLE THE TROOPS TO FORD THE RIVER AT THE SHALLOWS.



ON THE OPPOSITE SIDE OF THE RIVER, SHOWING THE RUINS OF THE DESTROYED GERMAN BRIDGE: CLEARING THE WAY UP THE BANK.



ACROSS ONE OF THE DEEP RIVERS: A PIER-BRIDGE FOR THE PASSAGE OF ALL ARMS, CONSTRUCTED BY AN INDIAN PIONEER CORPS.

The last German force in East Africa was driven over the Portuguese frontier in rout early in December, and hostilities there are now definitely at an end. The final campaign opened during July, on the rainy season coming to an end. Our troops were on the move immediately the swamps which extended during the rains over the coastal districts between the Rufigi and the Portuguese border on the south, where the last resisting force of the enemy stood at bay, became passable, and the flooded rivers, that traverse the region in a network of waterways, began to subside. The task of clearing the way in advance, road-cutting and

bridging, and making fording places for troops and transport vehicles, fell largely to the Indian pioneer regiments with General Van de Venter's army, belonging to the regular establishment in India. They are trained to that class of work at permanent schools and camps of instruction in India. With them worked African pioneer troops organised during the war under British officers. The pioneers found the German bridges over the rivers, built before the war by the Colonial Government, mostly destroyed, but all difficulties were surmounted, and new bridges were constructed as required.

THE FINAL EAST AFRICA CAMPAIGN: A FOREST ROAD AND RAILWAY.

DRAWN BY FRÉDÉRIC DE HAENEN FROM MATERIAL SUPPLIED BY AN EYE-WITNESS.



AT ONE OF OUR ENTRENCHED CAMPS IN THE FOREST, ABANDONED OWING TO THE TROOPS HAVING GONE FORWARD IN PURSUIT OF THE ENEMY: BABOONS EXPLORING THE PLACE.



ROAD AND RAIL TRAFFIC: A STAFF CAR PASSING A TRAIN OF WIRE-CAGED LORRIES, WITH AN ENGINE MADE OF A MOTOR-CAR CHASSIS ON A TROLLEY BOGEY.

The German railways and high roads in East Africa have throughout proved of enormous assistance to our troops in their operations. Horse transport was impossible over great part of the country in consequence of climatic conditions and the tsetse-fly plague. Ox transport was generally used in roadless and jungle districts, and on the roads, motor vehicles. With German thoroughness during the years before the war, excellent highways had been built all over the colony, and the main centres of trade and administration well linked together; right

across German East Africa from the Great Lakes to the seaports. "The upper illustration shows one of our camps, temporarily evacuated as the advance proceeded, while being explored by baboons from the adjoining forest. The improvised train shown in the lower illustration is drawn by an engine made of a motor-car chassis on a trolley bogey. The first truck holds commissariat store bags enclosed in a wire cage. A negro porter sits on the wire cage of the second truck.—[Drawing Copyrighted in the United States and Canada.]

THE CONQUEST OF GERMAN EAST AFRICA: THE LAST CAMPAIGN.

PHOTOGRAPHS NOS. 4 AND 5 SUPPLIED BY ILLUSTRATIONS BUREAU; NO. 7 BY TOPICAL.



ARTILLERY FIGHTING IN THE BUSH: A BATTERY COMING INTO ACTION IN HIGH GRASS.



ARTILLERY FIGHTING IN THE BUSH: A BATTERY ENGAGED—SHELLING THE ENEMY OUT OF A POSITION.



ON THE LINE OF MARCH IN THE COAST REGION: A BRIGADIER WITH HIS STAFF AT A HALTING-PLACE.



A WITNESS TO THE SWIFTESS AND CLOSENESS OF OUR PURSUIT: A RAILWAY BRIDGE THE ENEMY TRIED TO BLOW UP, BUT, OWING TO HASTE, ONLY MADE A HOLE IN A GIRDER-PLATE.



BRIDGING WORK BY THE INDIAN PIONEERS: A LOG BRIDGE WITH A MOTOR-LORRY ABOUT TO CROSS IT.



TESTIMONY TO THE ENEMY'S HUSTLED RETREAT: A RAILWAY LINE THE GERMANS WANTED TO BREAK UP, BUT ONLY HAD TIME TO DISLODGE THE RAILS.



AT A FORTIFIED ENCAMPMENT WHERE ATTACK WAS POSSIBLE: A GUN IN ITS PIT IN THE ENTRENCHED LINES, WITH AN AFRICAN PRIVATE ON SENTRY.

What much of the fighting in the African bush has meant for the artillery in the campaign just victoriously finished, is indicated in the first two illustrations. A battery is seen coming into action in the first illustration, on an open space where the trees are not in the way. The same battery is seen in action in the second illustration. The ground where the battery is is sufficiently clear in front, but the guns have to take post where they can and fire over the high grass. In the fourth and sixth illustrations, two places at which the retreating Germans attempted to destroy one of the railways of the colony are seen. In both cases, the attempt

failed to do damage, it may be taken, on account of the closeness of the British pursuers in the neighbourhood. In the case of the railway bridge shown in the third illustration, owing, undoubtedly, to haste, the laying of the destructive charge was badly bungled, with the result that the only injury to the bridge-structure—if injury it can be called—was, as seen, the blowing of a hole in one of the girder-plates. In the attempt to destroy the permanent way of the line, as the sixth illustration shows, the enemy had just time to dislodge the rails from the chairs and leave them lying on the ballast along the top of the embankment.

THE CONQUEST OF GERMAN EAST AFRICA: THE LAST CAMPAIGN.



AT ONE OF OUR CAMPS: A GRASS HUT "GUARD-ROOM" RUN UP BY MEN OF THE KING'S AFRICAN RIFLES WITHIN A FEW HOURS.



DURING A PAUSE IN AN ENGAGEMENT: MEN OF THE KING'S AFRICAN RIFLES AWAITING FURTHER ORDERS IN A BATTLEFIELD TRENCH.



PRISONERS AND CAPTURED MUNITIONS: GERMANS AWAITING DISPOSAL BESIDE A DUMP OF ARMS AND AMMUNITION AT A FORTIFIED POST.



FOR RECONNOITRING AND ADVANCE-GUARD PATROLLING IN THE TALL GRASS: A BRITISH OFFICER'S GRASS CAMOUFLAGED SUN-HELMET.



ARRIVAL OF THE MAIL FROM HOME AT A CAMP: SORTING OUT THE LETTERS FOR DISTRIBUTION BY BATTALION POSTMEN.

A typical "guard-room" grass hut in East Africa, of the celebrated corps of hard fighters, the King's African Rifles, is seen in the upper (left) illustration. The "guard-room" is the term for the place where soldiers keeping watch at the entrance to a camp or fortified place, or in cantonments and barracks, are on duty, and have special quarters. They are housed by themselves there, with a sentry on the beat always prepared to "turn out" the guard as occasion requires. Men under detention before trial are also "lodged in the guard-room"

for safe custody. African natives are expert in running up grass huts, and the neatly finished grass walled and roofed hut seen was built, as a note on the photograph states, by K.A.R. men in a few hours. In the illustration next below, German prisoners, officers and men, are shown with some of their captors, under arms and about to move off for posting sentries. The scene of the capture was a German fortified post where a large magazine of arms and ammunition had been established. The prisoners are seen standing in two groups

CHEERING UP THE WOUNDED IN HOSPITAL: MUSIC IN THE WARDS AT CHRISTMAS-TIME.

DRAWN BY A. FORESTIER.



VISITORS OF THE KIND WHO ARE ALWAYS WELCOME: LADIES ENTERTAINING WOUNDED MEN IN A WARD OF A MILITARY HOSPITAL.

Although there is always a wonderful spirit of cheerfulness and good humour about the wards of a military hospital, even among the serious cases, yet existence naturally becomes wearisome at times, especially for men who may have to remain for weeks or months either in bed or within the hospital precincts. They welcome visitors who can entertain them cheerfully, and music is a never-failing source of pleasure. Our drawing shows a typical scene in a hospital ward at Christmas-time, when some ladies have arrived to sing and play to the patients while they are having tea. Seasonable decorations give an added touch of brightness to the room, and form a pleasant reminder of home. Busy nurses

are going about their afternoon work, dispensing tea and bread and butter, taking pulses, or attending to the adjustment of a bandage. Some of the men who are able to be up and about, to the very of bed-ridden comrades, are returning from a stroll outside, while others sit and enjoy a cigarette, or propel themselves in an invalid-chair. All listen attentively to the singer, and join vigorously in the chorus of any song they know. Many ladies have been doing somewhat similar kindly work to this throughout the War, and it is always most cordially welcomed. To the wounded, the charm and solace of music and song are exceptionally sympathetic and enjoyable. (Drawing Copyrighted in the United States and Canada.)

THE MOTOR-BUS AT THE FRONT: TROOPS FROM

DRAWN BY H. W. KOSKREK.



AFTER HARD FIGHTING IN THE FRONT LINE: A CONVOY OF TROOPS

On our very disordered lines from the traffic system (under which, in London, we have our motor-omnibus routes on which soldiers make their carefully organized and mapped-out journeys every day, the Army in Flanders and Northern France has its own regularly organized motor-bus service. A regular service of motor-omnibuses, on limited days at work in the streets of London and other large cities—viz at officially appointed intervals between the rest-camps in rear of the battle-area and the reserve troops' headquarters, bringing back men on relief from the trenches, or from the battlefields, as the case may be. On the outward journeys they take our reserve troops and reinforcements for duty in the fighting-line, until it is again the turn of these to be brought back for a rest.

THE TRENCHES BOUND FOR A REST-CAMP.

AFTER OFFICIAL PHOTOGRAPHS.



GOING BACK ON RELIEF FOR THEIR TURN OF REST-CAMP RECUPERATION.

We see here a convoy of motor-buses on the road, making its way back to a rest-camp with men from the fighting-line. The men's cheeriness and general physical fitness are apparent at the first glance, as the "bus-beds" are exchanging greetings with a passing motor-cyclist despatch-riding going in the opposite direction. The motor-bus relief service works not only with clockwork precision, but the saving of time and sparing of fatigue to the soldiers it carries have proved an all-round advantage. It goes without saying that, as regards the outward "bus" journeys, with men going up to the battle-front, the obtaining of a long tramp with their heavy loads on their backs must be of considerable advantage from a fighting-troop point of view.—(Photograph sent by the French Staff and Command.)

THE ROYAL NAVAL AIR SERVICE: A MAGNIFICENT WAR RECORD.

PHOTOGRAPHS REPRODUCED FROM "THE WORK AND TRAINING OF THE ROYAL NAVAL AIR SERVICE," PUBLISHED, BY AUTHORITY OF THE ADMIRALTY, AT THE OFFICES OF "THE ILLUSTRATED LONDON NEWS," 175, STRAND, W.C. 2.



A SEAPLANE AS TORPEDO-BOAT OF THE AIR: A TORPEDO JUST RELEASED STRIKING THE WATER.



BOMB-DROPPING FROM SEAPLANES: A MACHINE WITH BOMBS IN POSITION BENEATH THE FUSELAGE.



PARACHUTING FROM KITE-BALLOONS: TESTS WITH DUMMIES.



LEARNING TO IDENTIFY ENEMY AND FRIENDLY SHIPPING: R.N.A.S. PROBATIONARY FLIGHT-OFFICERS INSTRUCTED BY MEANS OF MODELS.

We have just had the honour of issuing from these offices a new publication entitled "The Work and Training of the Royal Naval Air Service," which, we are proud to think, is a worthy record of the magnificent achievements of that latest and most adventurous branch of Britain's incomparable Navy. The work forms a companion volume to "The Work and Training of the Royal Flying Corps," which we previously issued, by its authority, in similar format. The price in each case is half-a-crown net. The pictorial record of the R.N.A.S. likewise contains a large number of wonderful illustrations in photogravure,

The Introduction is contributed by the First Lord of the Admiralty, Sir Eric Geddes. "The story of the rapid progress which has been made in our aerial warfare," he writes, "will probably prove one of the most interesting, and one of the most remarkable, of the many thrilling chapters in which our history abounds. . . . The photographs . . . should convey to the general public some idea of the varied work which is continuously being carried on by the Royal Naval Air Service, and of the important part which officers and men alike are playing in this critical hour of the Empire's history."

Mappin & Webb

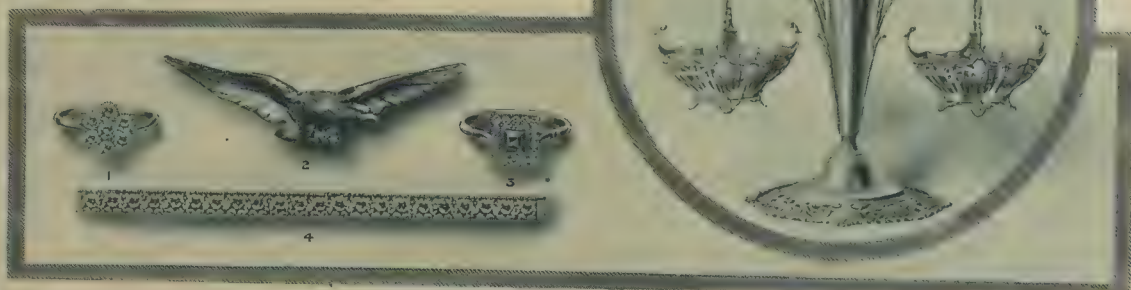
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SCIENCE & NATURAL HISTORY.



A SELLER OF PILLS FOR THE PALE AND OF DRUGS;
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THE SUPERSTITION OF RUDOLF II, EMPEROR OF THE HOLY ROMAN EMPIRE. THE EMPEROR CONSULTING HIS ALCHEMIST (16TH CENTURY).



THE HOUSE HOME DARED PASS WITHOUT CROSSING THE MASSES;
THE HOME OF NICHOLAS FLEAMEL (1530-1611).

SCIENCE JOTTINGS.

THE MARRIAGE OF OUR MAIMED.

THERE always have been, and there always will be, Jeremiahs among us. As a rule, no worse can be said of them than that they are "kill-joys." They are the undertakers who come to prepare our cheerfulness for burial—if we are so foolish as to

How can it be otherwise? For the tissues—bone and muscle and nerve—which make up the body of the individual are merely the envelope of the "germ-tissue" which is to give rise to the next generation. This tissue derives its *nurture*, but not its nature, from the body which forms its temporary abiding-place. The germ—"plasm," or tissue, is continuous, giving rise to an intermittent series of individuals, or

injuries to the differentiated tissues of the "envelope," otherwise the "individual," can be transmitted to the amorphous tissue of the germ.

Disease, especially of the more virulent kind, may, indeed, adversely affect the germ-tissue, and the resultant offspring. For the nurture of the germ-tissue, out of which the individual is fashioned, is sapped. But this is merely a case of pre- instead of post-natal derangement. The children of "consumptive" parents will not inherit the disease, but they will be prone to it, since they are the product of a strain of germ-tissue giving rise to individuals susceptible to the attacks of the tubercle bacillus.

"Birth-marks" are not infrequent; commonly no cause can be assigned for them. But it sometimes happens that they correspond with the seat of some injury to one or other of the parent contributors of germ-tissue—an injury sustained while the body-tissues of the offspring were forming, or long before they started into being; but in either case the "birth-mark" is inconsequently believed to have been inherited. Defects in a newly born child are sometimes attributed to even more remote causes, as when defective limbs are attributed to shock received by the mother in witnessing some mishap to some stranger in the street while the defective child was yet unfashioned.

The religious rite of circumcision has been practised among various peoples for thousands of years, but it has to be performed anew in each generation. The same applies to the docking of the tails of sheep and horses, and the "dubbing" of the combs of fighting-cocks, and the disorning of cattle. In no case are these injuries transmitted to the offspring of such mutilated parents. Nor is there any case known where the loss of sight, or limbs, has been transmitted to the children of men and women thus afflicted. Congenital blindness, or deaf-muteness, is another matter. Such defects are the result of a bad strain of germ-tissue, and are on all-fours with supernumerary fingers and toes. They belong to another category, which lack of space forbids me to discuss.



JAPAN'S RECOGNITION OF THE HEROIC DEFENCE OF VERDUN: A JAPANESE DELEGATION PRESENTING A SWORD OF HONOUR TO THE MAYOR OF VERDUN, AT THE GRAND PALAIS, PARIS.

Practically every nation of the Allies, the Governments of which confer decorations—France, Great Britain, and Russia (under the ex-Emperor) leading the way—have conferred special decorations on the City of Verdun, as testimony to the heroic defence.—[French Official Photograph.]

suffer them. But sometimes they are really mischievous—as when they take to prophesying evils such as threaten us in some vital spot. They are always careful, on such occasions, to drive home their gloomy tales of horror by carefully selected snippets of information gleaned, with a malicious spice of satisfaction, from the "highest authority," touching their particular theme.

Just now some of these croakers are busy misquoting as mentors of our national well-being. Their "mission" is to warn those who contemplate marriage with such as have been maimed in battle; and they are no less busy in bidding the maimed consider well the gravity of the step they propose to take. The children of such marriages, they assert, with an emphasis in inverse proportion to their knowledge of such matters, can hardly be expected to be normal children, but will almost surely be maimed as their fathers were.

The general effect of such assertions must be to arouse anguish and consternation unspeakable; and they are the more deplorable because they have no foundation in fact. To give these people their due, it must be admitted that they can cite the opinions of medical men and of learned Professors of Science in support of their arguments. But opinions are poor substitutes for *facts*, and of these there are none to serve them.

This matter has formed a subject of controversy for generations. All turns upon the question, "Are acquired characters transmitted?" By "acquired characters" we mean tangible additions, or subtractions, to the body as a whole during its post-natal growth. These "additions or subtractions" are new features, "acquired" by the individual during its lifetime, and are not present in the normal individuals of the race. Can the individuals thus "ear-marked" transmit such "acquisitions" to their offspring? No single instance of such transmission has yet been produced. Though numberless cases supposed to demonstrate the contrary have been brought forward, not one has stood the test of criticism.

"persons." These display an infinite range of variation in physical and temperamental characters, because they are formed of a blend of germ-tissue contributed by two individuals, male and female, in equal amount. Each of these two strains of germ-plasm tends to perpetuate, or transmit, its own peculiarities,



JAPAN'S RECOGNITION OF THE HEROIC DEFENCE OF VERDUN BY THE PRESENTATION OF A SWORD OF HONOUR: THE MAYOR OF VERDUN WITH THE SWORD; ALSO, DISPLAYED ON A CUSHION, THE DECORATIONS CONFERRED ON THE CITY BY THE ALLIES.—[French Official Photograph.]

with varying success, which can be measured by the offspring of such blend by the greater likeness of the individual thus created to one or other of its parental strains; but the likeness can never be exact.

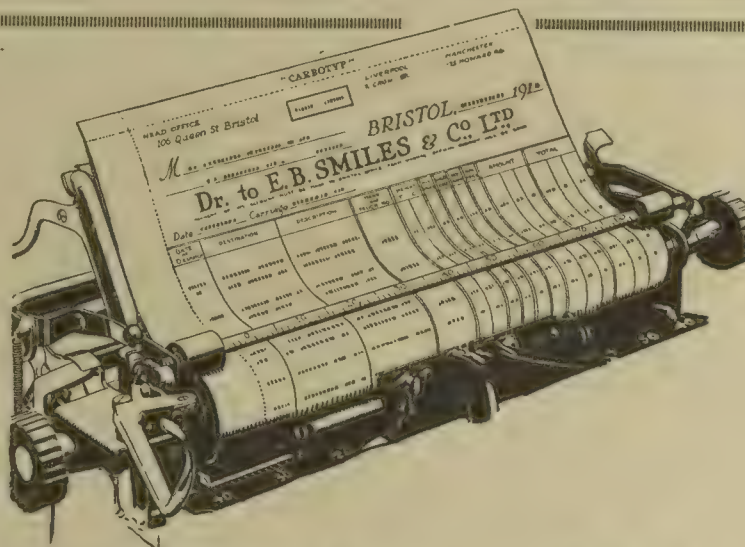
This being so, there is no mechanism by which

Let those "broke in our wars" take heart. They may see themselves once more, "sound in wind and limb," in their children. Let them increase and multiply, for they shall give us such sons and daughters as we need, for they will be the children of our best and bravest.

W. F. PYCRAFT.

More Advice from K & J

Nothing Counts but
EFFICIENCY—there-
fore Buy National War
Bonds which will make
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to Win the War



"Nothing counts but EFFICIENCY" ... K & J

The Efficiency of the individual Business Man is necessary to the Efficiency of the Nation

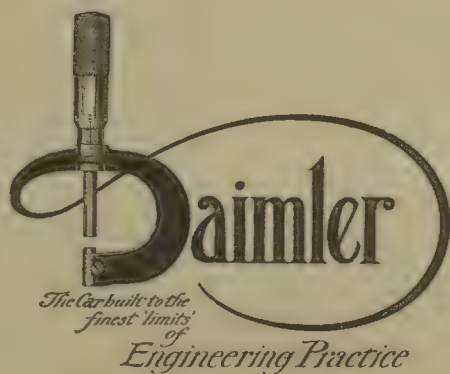
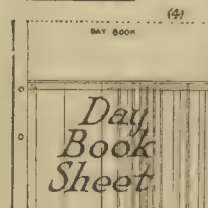
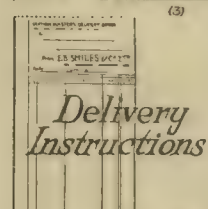
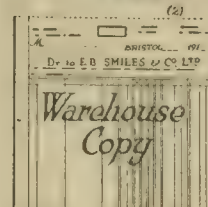
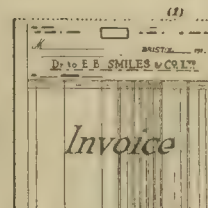
"Efficiency" is the greatest Power and the greatest resource we possess. That is why K & J have allowed all else to go by the board, and are concentrating on the production of Efficiency Methods and Efficiency Equipment—such as "Carbotyp," which is illustrated here. Carbotyp cuts out unnecessary work in all departments—enables one employee to do the work of several—eliminates errors—ensures the maximum of output in the factory and in the office—makes Business run smoothly and efficiently as only Carbotyp can. In every business in this country to-day, Carbotyp will assist towards Efficiency. The illustration gives some idea of what Carbotyp is—a special method of making up a number of forms—any size, any colour, any shape—into "sets," convenient for use in the typewriter or by handwriting. All the forms in a set are written at one operation—easily, rapidly, correctly. A dozen forms made up in Carbotyp style are as easily written as a single sheet. Every Business man should understand Carbotyp.

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CHRISTMAS GIFT BOOKS FOR YOUNG READERS.

A NUMBER of attractive illustrated gift-books of a kind that are likely to prove highly acceptable to boys and girls, have arrived from two firms, Messrs. Nelson and Messrs. T. C. and E. C. Jack.



A ROYAL VISIT TO AN EQUIPMENT FACTORY: THE KING AT MESSRS. WARING AND GILLLOW'S.

On December 8, the King visited a big equipment factory. His Majesty was received at the main entrance by Mr. S. J. Waring, and made a complete tour of the factory, expressing much interest and satisfaction in all that he saw. Our first photograph shows the King in the Court of Progress returning to the factory after inspecting tents and marquees.

Several of these books deal directly with the war, while there is more or less of a war-interest in most of them. "How We Baffled the Germans," by Eric Wood, illustrated in colour by Archibald Webb (Nelson), tells the exciting adventures of two boys in South-West Africa. The tale ends with the surrender of the German colony to General Botha. In "The Children's Story of the War" (Nelson) Sir Edward Parrott (author of "Britain Overseas" and "The Pageant of English Literature") has given a bright and vivid account of events from the Battle of the Somme to the end of 1916. The book has a good coloured frontispiece, of a British seaplane tracking a submarine, with numerous drawings, photographs, and maps. "The Secret Passage," by Dorothy Russell (Jack), with coloured illustrations, is a simple tale about some children who explored an underground passage from an old smuggler's cottage by the sea, and hit the trail of some German spies and petrol-stealers. Several true stories of the war, such as that of the boy hero, Jack Cornwell,

and exploits of V.C.'s, occur in "The Children's Treasury of Pictures and Stories" (Nelson), a popular illustrated annual.

On the other hand, "The Madonna of the Goldfinch," by Amy Steedman, with eight illustrations in colour by E. M. Steedman (Jack), takes its readers back to days before the war. It contains thirteen tales, written in a spirit of piety, about children and places the author knew in "the peaceful, happy days it was once my lot to spend in Italy."

Natural history, always interesting to boys and girls, is represented by a handsome and well-written volume, with excellent colour-plates and many drawings, called "Birds Through the Year," by W. Beach Thomas and A. K. Collett (Jack). Mr. Thomas is the well-known war-correspondent of the *Daily Mail*. He does not give a chapter on birds at the front, but possibly that subject is reserved for the future. The book deals only with birds in this country. It is very well done, showing much original observation and literary grace. Another work of natural history is "Geology," by A. R. Derryhouse (Jack), in the "Romance of Reality" series. It describes scientific explorations in "a country which we will call 'Geologica,'" but why such mystery should be made of the locality is not quite apparent. Some of the photographs might have been clearer; otherwise both text and illustrations will be of interest to young geologists.

Of a more strictly educational character is "Nelson's Simplified Russian Reader," edited by H. J. W. Tillyard and Bernard Hopfen. It gives extracts in Russian on familiar topics, with notes and vocabulary. The addition of the Russian alphabet and a translation would have made it still more useful.

Of picture story-books for the little ones a novel and notable example is "Little Miss Anzac: The True Story of an Australian Doll," by Mrs. W. A. Holman, wife of the Premier of New South Wales, illustrated by Nelle Rodd (Jack). "Every word in this book," we are told, "has been spoken by a child—an experiment of letting a child speak to children." It was a happy idea, and the result is sure to please other children. Two other

picture-books for little people are "The Adventures of Chippybobbie and His Friend Mr. Fieldmouse," written and illustrated by Mr. Hawley Morgan (Nelson); and "The Betty Book," written by "Betty, Betsy, and Bess" (Nelson). Both are large and well printed, with illustrations in colour as well as drawings. The former is about animals, while the latter tells the adventures of a little girl and her dolls.

Crackers have become an institution inseparable from Christmas, and Messrs. Tom Smith have, as usual, provided an excellent and abundant variety, at prices to suit all purses. Naturally, there is a strong war interest in the decorations, accessories, and contents of this year's productions. One box that is sure to be highly popular is the "Model Tank"; while another, entitled "Jolly Jack Tars," is accompanied by an attractive little model warship. An amusing box for parties of munition-makers, girls' hostels, and so on, will be that called "Women's Work"; and there are, of course, numerous boxes to please young people, including "John Bull's Prizes," "Caps and Toys," and "Bombs of Peace," as well as alluring Santa Claus stockings. The Allies are duly commemorated by such boxes as "Japanese Toy Crackers" and "Our New Ally" (the United States). Those who require table decorations will like the box of "Artistic Crackers," shaped like flowers and ferns in resplendent yellow and green.



A ROYAL VISIT TO AN EQUIPMENT FACTORY: THE KING RECEIVING A GREAT OVATION FROM THE WORKERS.

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Why, it may be asked, is there a Waiting List at all, if the children's needs are so urgent?

Because these little people are all in circumstances calling for more than a temporary provision. When the National Children's Home receives them it will not only supply their immediate wants, but also clothe and educate them, provide any necessary medical and surgical treatment, and train them in careers of usefulness.

Each gift of FIVE GUINEAS will enable us to shelter one of them for the Christmas season and until more permanent accommodation is available. Our children remain with us, on an average, five and a-half years.

Nearly half-a-century's experience in child-saving has taught us that the soul of a child is as delicate and as individual as a flower, each little entity requiring personal study; and we are confident that the more the careful nature of our work is known, the more generously will the public support it. In our 18 Branches, every form of child-need is studiously provided for—from tuberculosis to simple orphanhood.

(Founded by Dr. STEPHENSON)

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to H.M. The King

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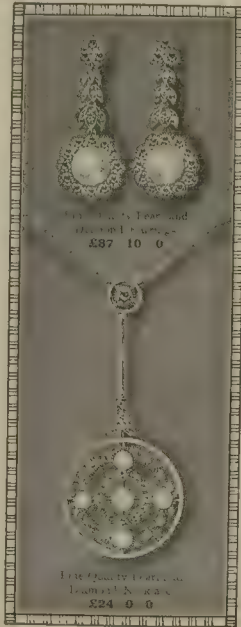
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FOR those who have to purchase presents at Christmastide, the Goldsmiths and Silversmiths Company have a most comprehensive selection of suitable Gifts. Every article is of the highest quality, and no better value can be obtained elsewhere. A fully illustrated catalogue will be sent post free on application.

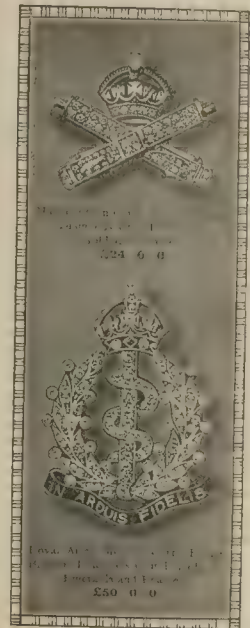
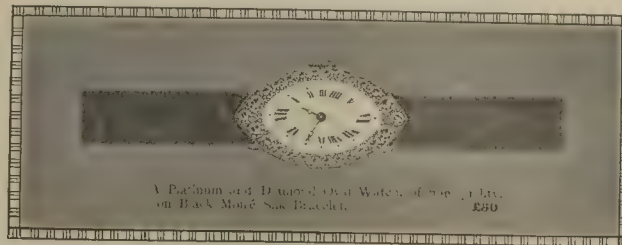
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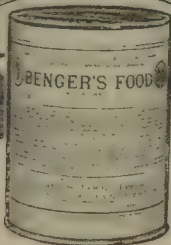


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Its natural antipathy to wet is obtained by special processes of weaving, proofing and combining its materials.

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Kits in 2
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THE PLAYHOUSES.

THE COMMAND PERFORMANCE AT HIS MAJESTY'S.

IT is easy to see what it was that recommended "The Man from Blankley's" to selection for a command performance, and so, perhaps, exalted F. Anstey's farcical comedy to a place in the permanent repertory of the stage. More than ever remote though its suburban types—or rather, caricatures—seem from reality in these times, little as even "Mr. Punch's" imprimatur can reconcile us to this extravagant piece of satire as a true picture of the life of not so long ago, the piece has the advantage, for ceremonial occasions such as last Friday's matinee in aid of King George's Pension Fund for Actors and Actresses, of requiring a big cast, and providing in the set of freaks who sit down together round Mr. Montague Tidmarsh's dinner-table a whole series of strongly marked characters, each with its streak of grotesque oddity. Here, then, is just the material to suit a company of "star" players; every member has his or her chance of creating a certain impression and of having something better to do than walk on unrecognised in a crowd. A brilliant array of talent had been arranged for the revival, and the King and Queen had the pleasure of witnessing an extremely amusing and spirited representation. Once more the amiable imperturbability of Mr. Charles Hawtreys' Peer intruder showed up delightfully in contrast to the eccentricities of his stage companions. Once more Mr. Weedon Grossmith's portrait of the fussy little "bouncer" of a host suggested that the part to which he succeeded at the play's Haymarket revival came to him by right divine. Apart from these two and Mr. Holman Clark, the company were new to their work, but secured an admirable ensemble. It included Mr. H. B. Irving, Mr. A. E. George, Mr. Nigel Playfair, Mr. Volpe, and Mr. Nelson Keys among the men; and, of the other sex, Miss Gladys Cooper, Miss Ellis Jeffreys, Miss Irene Vanbrugh, Miss Mary Ferriold, Miss Doris Lytton, Miss Jona Harrison, Miss Clare Greet, and Miss Sydney Fairbrother. The skittishness of her Cecilia Flanders revealed Miss Vanbrugh in a new light; the tartness of Miss Jeffreys' Mrs. Tidmarsh showed us whom we can always count upon to fill Fanny Brough rôles. It was pleasant to hear from Sir Squire Bancroft that the royal fund had received material gains from the box-office takings.

"CHARLEY'S AUNT," AT THE ST. JAMES'S.

"Charley's Aunt" is an old favourite that needs no introduction to London playgoers; their only problem in connection with her at this time of the year is not who she is, for she is growing grey in their service, but where she will choose to make her reappearance. This time her choice has fallen on the St. James's Theatre; and with a company which includes some familiar names, such as

Mr. J. R. Crauford, Mr. Sydney Compton, and the author's clever daughter, Miss Amy Brandon Thomas, and others that are newer but also make good, she has started running at her old pace of hilarity. The Lord Lieutenant of the county Mr. Kenneth Kent has not modelled his humorous methods too closely on



WIRELESS ON A FRENCH ARMoured TRAIN: A SCENE ON THE MARNE FRONT.—[French Official Photograph.]

those of Penley; but, perhaps, that is no disadvantage—at any rate, he is very happy and very droll in the title-rôle, and the play gets as many laughs as when it was a novelty.

GENERAL NOTES.

IN his admirable Preface to "The Western Front: A Hundred Drawings by Muirhead Bone, with Text by C. F. Montague," Vol. II (published by authority of the War Office, 20, Tavistock Street, Covent Garden, W.C.), the second volume of Mr. Muirhead Bone's drawings of the war, Mr. C. F. Montague disposes of the criticism that the artist does not draw war "as it is." Mr. Montague says, "He has drawn battles raging, a city in flames, gunners serving their guns... the fall of shot airmen... the scarred fields and wrecked houses and churches... troops on the march and at rest... billets in cellars and barns," and claims that through all these physical things the artist has drawn "some more elusive things of the spirit—willing patience, good humour, discipline, ardour." This acute critic of Mr. Muirhead Bone's work would not have him try to draw with the "propagandist 'realism' of Verestchagin or with the frigid effectiveness of a Meissonier." The artist's drawings of life "Behind the Front" show the novel industrial experiments made because of the war, and in "Soldiers' Travel" we are given some vigorous drawings of the building of great ships.

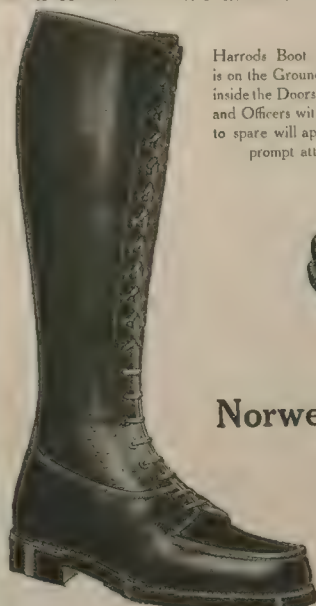
It is not everyone who can afford to gratify their impulse to make Christmas gifts of costly gems, and it is fortunate that such admirable substitutes can be found as the beautiful Sessel pearls, which are to be seen in the show-rooms of the company at 14 and 14A, New Bond Street, W., for they are like the real stones in everything but price. Faultless in form and colour, many ladies who possess valuable real pearls yet have duplicates made in these skilful imitations, for wearing at the theatre or on occasions which may involve some risk of loss; and the makers claim for the Sessel pearls that they possess the weight, tone, lustre, and durability of the natural pearl, the difference being that one is the product of the laboratory and the other of Nature. If an illustrated price list is sent for, the low prices will be seen at a glance, and the suitability of the Sessel for seasonable gifts made obvious if a visit to the show-rooms is not convenient. Rings, pins, and studs are included in the Sessel productions.

It is interesting to learn that every man from Ontario (Canada) now serving in England and France will receive Christmas presents from the Ontario Government, 70,000 parcels having been shipped to France, containing comforts, trench-gloves, and a personal message from the Premier; 60,000 parcels have also been forwarded to England for Ontario men serving here. The distribution of these gifts has been arranged by Lieutenant-Colonel R. Reid, Agent-General for Ontario, and is a pleasant proof that Ontario does not forget her soldier sons and their patriotic zeal.

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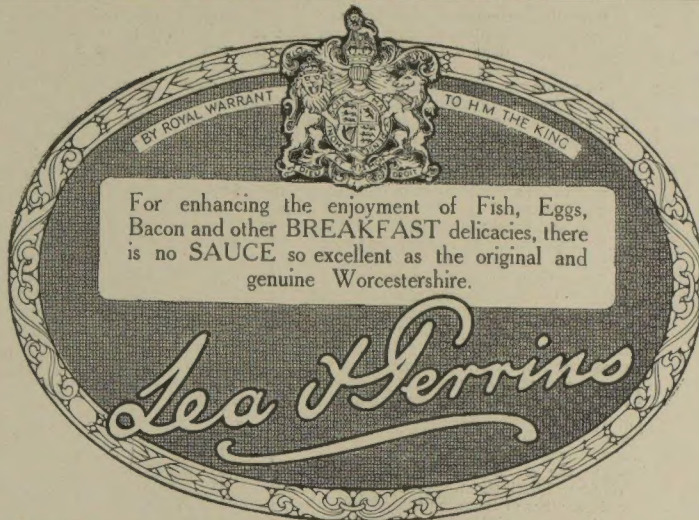
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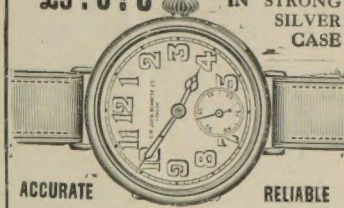
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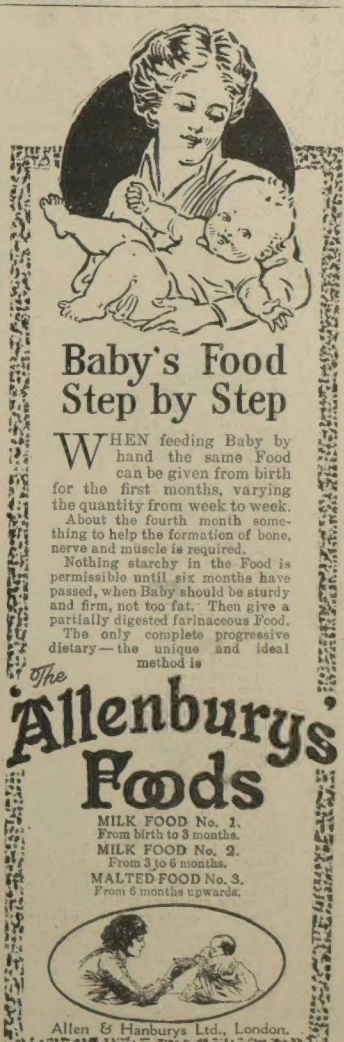
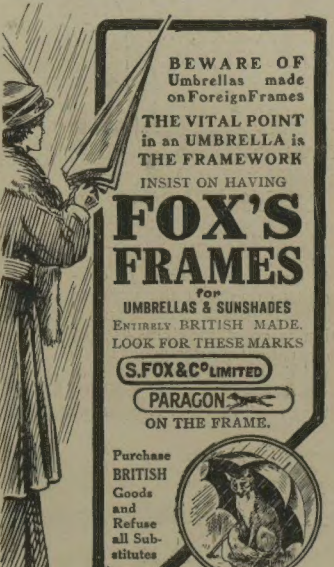
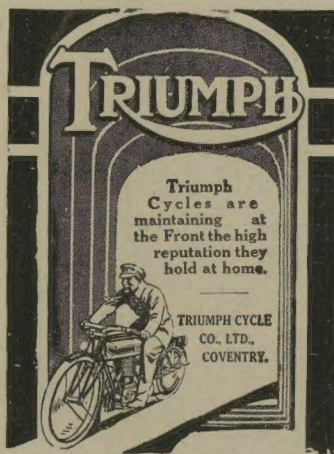
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THE CHRONICLE OF THE CAR.

Naphthalene as Motor-Fuel. The *Motor*, which has already done a vast amount of good work in the interests of home-produced fuel, and particularly in connection with the coal-gas movement, is now making known the possibilities of naphthalene as a



A POPULAR CAR IN SWITZERLAND: THE UBIQUITOUS DAIMLER.

This picturesque photograph shows a 20 h.p. Daimler car in Switzerland, on the road from Zurich to Zug.

motor-fuel. As a matter of fact, there is nothing new in the idea, which I recollect was put forward a very long time ago. But that was in the days when there was no shortage of petrol, and the question of what were then experimental alternatives was of purely academic interest. It is not so now, when petrol is practically unobtainable, and everything which holds out the least promise of assisting to ease the situation must receive the closest and most careful attention. Naphthalene is fairly well known as a disinfectant, and has met with some amount of success as an antiseptic in surgery; but it is best known in the form

of the white, opaque balls which are used to keep the moth out of furs and clothing. Some fifty per cent. of the total amount extracted in the distillation of coal in gas-making reaches the market in the form of fire-lighters. As the *Motor* points out, naphthalene is likely to have much more important uses. Chemically, it is very closely allied to the better-known by-product of gas-making, benzol. While the chemical formula for benzol is C_6H_6 , that for naphthalene is $C_{10}H_8$. The close approximation of the two led at one time to a great deal of experiment, the object of which was to prove that a combination of benzol and naphthalene, or of the latter and petrol, would result in greater power output, and consequently increased mileage per fuel unit. These experiments had very little success, mainly because it was found that the naphthalene had a pronounced tendency to revert to its crystalline state. Other experimenters went in for the use of the naphthalene alone. Some small amount of success was attained by first liquefying the fuel and vapourising it in the ordinary way in a spray carburettor. A great deal of difficulty was encountered here, for the reason that, unless the naphthalene is commercially pure, the jet and choke-tubes become clogged by a deposit of foreign matter. Since the war other experiments have been carried out by Messrs. Willis and Wilson, who are associated with the Corporation Gas Works at Birmingham. Space will not allow of following the whole course of the experiments in detail, so it will be enough to say that these demonstrated that it is necessary to raise the temperature of the naphthalene to about 135 deg. C. in order to produce a sufficient volume of naphthalene vapour to form an explosive mixture in combination with air subsequently introduced. It was demonstrated also that the correct proportions of this explosive mixture were as twelve parts of air to one part of naphthalene vapour.

Its Practical Use. The obvious next step was to find a suitable type of vapouriser in which to melt the fuel and raise it to the requisite temperature, afterwards carburetting the resultant vapour. Again I cannot follow the experimental work in all its details, but

it may be recorded that all the manifold difficulties appear to have been successfully overcome, and at the present moment a 25-h.p. American motor, fitted into a boat, is being run on naphthalene alone. All this is extremely interesting, and there does not seem to be any reason to doubt that further experiment will really reduce the problem of naphthalene as a fuel to practical dimensions. When we recollect that this product is almost a waste commodity, and that every gas undertaking in the country produces it by the ton—they would be only too pleased if they did not, by the way—we are compelled to realise that if only it can be brought into use in the direction indicated it must go far towards a solution of the problem of that home-produced fuel for which we have been seeking for so long. Of course, the matter is still only in its experimental stage, though it must be conceded that the experiments appear to have reached a very advanced point—so advanced, indeed, that it would seem as though all we want now is, as I have indicated, a means of practical application of a proved principle. That those means will be forthcoming, no one who has read the story of the experiments and their results, as set forth by the *Motor*, can doubt for a moment. W. W.



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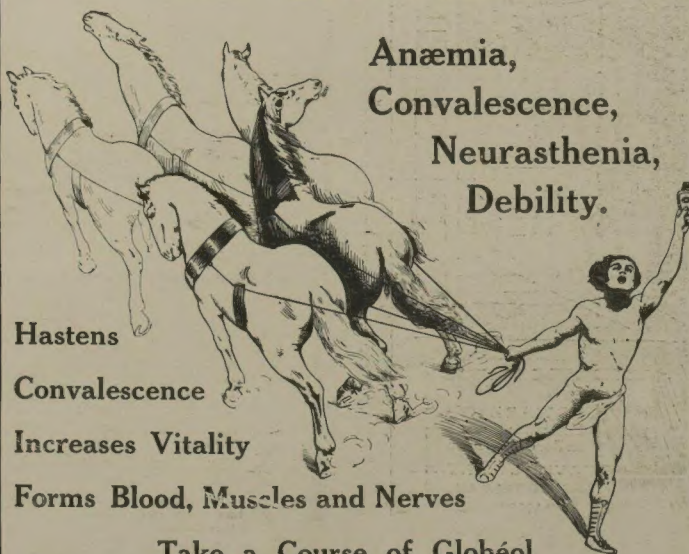
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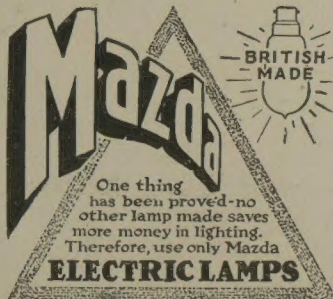
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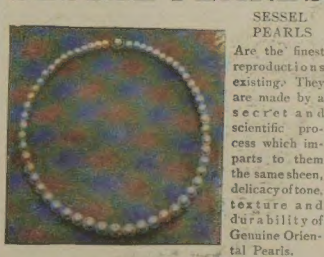
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CHESS IN LONDON.

Game played in the Championship Tournament of the City of London Chess Club, between Messrs. WAINWRIGHT and MACDONALD.

(Ruy Lopez.)

WHITE (Mr. M.) BLACK (Mr. W.)
 1. P to K 4th P to K 4th
 2. Kt to K B 3rd Kt to Q B 3rd
 3. B to Kt 5th P to Q R 3rd
 4. B to R 4th Kt to K B 3rd
 5. Castles B to K 2nd
 6. R to K sq P to Q 3rd
 7. P to Q B 3rd Kt to Q 2nd

It is not for nothing that general experience has agreed on P to Q Kt 4th at some point or other in the defence of the Ruy Lopez, and it seems to us it is now due here.

8. P to Q 4th Castles
 9. Q Kt to Q 2nd P takes P
 10. P takes P Kt to Kt 3rd
 11. B takes Kt P takes B
 12. Kt to B sq P to K B 4th

An apparently inquisitive advance, but it would be difficult to find a move more to Black's own prejudice. It gives his opponent at once both a passed Pawn and a formidable centre.

13. P to K 5th P to Q 4th
 14. Kt to K Kt 3rd Q to K sq
 15. B to B 4th P to K R 3rd
 16. P to K R 4th P to Q B 4th
 17. P takes P B takes P
 18. R to B sq

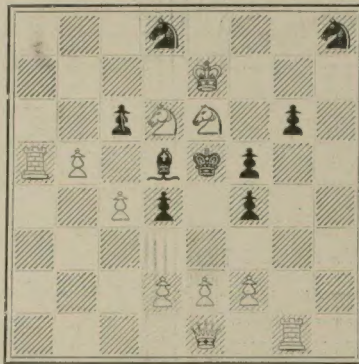
To this simple reply there is no

PROBLEM No. 3773.—The author writes to say that a B P is essential at Black's Q 4th. With this correction, the B P at R 4th may be removed.

SOLUTION OF PROBLEM No. 3772.—By A. M. SPARKE.

WHITE BLACK
 1. P to B 7th ANY MOVE.
 2. Q, Kt, R, or P mates accordingly.

PROBLEM No. 3774.—By J. PAUL TAYLOR.
 BLACK.



WHITE.

White to play, and mate in two moves.

T R DAWSON (Huddersfield).—Any contribution of yours is always welcome.

M F SOONAWALA (Nagpur).—We are much obliged for your letter and games. We fear, however, they are quite out of date.

MISS HARRIS (Newark).—We trust you have received our card in reply to your inquiry.

A I LOWNDEN (Newport).—A correct solution of Problem No. 3771 is acknowledged in due course, although not necessarily in our first issue after you have posted it. We are sorry we do not publish four-movers, but we are obliged for your offer of one.

GLENNIEV (Farnham).—We are sorry to plead guilty to your indictment; but, by an unfortunate accident, the proof escaped the correction of being played over.

A SCUDAMORE (Manchester).—You could get an elementary book on Chess Openings by applying to Chess Amateur Office, Stroud, Glos.

E S EVANS (Hovviness).—See answer to A Scudamore above.

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